

TABLE 3
PLANTING FOR CRITICAL AREAS
TREES SUITABLE FOR SURFACE MINES

SPECIES	LOWER LIMIT pH TOLERANCE	TOLERANCE TO¹ SHADE	DRAINAGE ADAPTATION	ELEVATION²
CONIFERS				
Larch, Japanese	4.0	intermediate	excessive-poor	
Pine, Austrian	4.0	intermediate	well	
Pine, Pitch Pine	4.0	intolerant	excessive-well	below 3000 feet
Red Pine	4.0 - 4.5	intolerant	excessive-well	above 2000 feet
Pine, Scotch	4.0	intolerant	well	
Pine, Virginia	4.0	intolerant	excessive-well	below 2500 feet
Pine, White	4.5	intermediate	well-poor	
Spruce, Norway	4.5 - 5.0	tolerant	well	
Spruce, White	4.5 - 5.0	tolerant	well-poor	
HARDWOODS				
Alter, European Black	3.5	intolerant	well-poor	below 2500 feet
Aspen, Bigtooth	4.0	intolerant	excessive-well	
Aspen, Quaking	4.0	intolerant	excessive-well	
Ash, Green	4.0	intermediate	well-poor	below 2500 feet
Ash, White	4.0	intermediate	somewhat poor	below 2500 feet
Birch, Gray	3.5	intolerant	excessive-well	
Birch, Sweet	4.0	intermediate	excessive-well	
Chestnut, Chinese	5.0	intermediate	well	
Locust, Black ³ 'Steiner'	4.0	intolerant	excessive-well	below 3000 feet
Oak, Red	4.0	intermediate	well	
Oak, Sawtooth 'Gobbler'	5.0	intolerant	excessive-well	
Poplar, Hybrid	4.0 - 4.5	intolerant	well	
Poplar, Yellow	4.5	intolerant	well	below 3000 feet
Sycamore	4.0 - 4.5	intolerant	poor	below 2500 feet

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PLANTING DATES: Plant as soon as frost is out of the ground but no later than:

HARDINESS ZONE	DATE
6 & 7	04/15
4 & 5	05/01

¹Shade tolerance of species defined as follows:

Tolerant – can withstand completely shaded conditions

Intermediate – partial shade is tolerated; plant requires some light

Intolerant – plant requires full sunlight

²Blank spaces indicates no restriction: “Below” means that species are to be planted below this elevation

³May be added to mixtures in Table 2 at 3 lbs. per acre